

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/004346

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C09K19/58 H01L51/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C09K H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ITO, SATOSHI ET AL: "A new synthesis of '2,3!naphthoporphyrins" CHEMICAL COMMUNICATIONS (CAMBRIDGE), (11), 893-894 CODEN: CHCOFS; ISSN: 1359-7345, 2000, XP002288611 the whole document	1,3,10
A	EP 0 921 579 A (LUCENT TECHNOLOGIES INC) 9 June 1999 (1999-06-09) page 3 page 9; claims 1-9	1,3,10
A	EP 0 917 216 A (LG ELECTRONICS INC) 19 May 1999 (1999-05-19) page 12 - page 15	1,3,10

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

15 July 2004

Date of mailing of the international search report

29/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bader, K

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/004346

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0921579	A	09-06-1999	EP 0921579 A2	09-06-1999
			JP 11251601 A	17-09-1999
			TW 399338 B	21-07-2000
			WO 9927000 A1	03-06-1999
EP 0917216	A	19-05-1999	CN 1217582 A	26-05-1999
			EP 0917216 A2	19-05-1999
			JP 11233263 A	27-08-1999
			US 6248458 B1	19-06-2001
			US 2004104397 A1	03-06-2004
			US 2001031380 A1	18-10-2001